AHM-765E

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
4-ABP-derived globin adduct	blood	man	C	E	Falter, 1993, Titisee	also in nonsmokers
4-aminobiphenyl globin adduct	blood	man	C	M	Wogan, 1989, 1500-G3	increase
					Perera, 1991, 1574-D2	increase
					Richter, 1993, Poster	increase over background
7-ethoxycoumarin deethylase	liver	man	C	M	Remmer, 1987, 1231-E3	no effect
7-ethoxyresorufin	liver	man	C	M	Fleischmann, 1986, 1366-B2	increase
7-ethoxyresorufin deethylase	placenta	man	C	M	Remmer, 1987, 1231-E3	strong induction
				S	Remmer, 1987, 1231-E3	no effect
	liver	man	C	M	Remmer, 1987, 1231-E3	induction
8-hydroxy-deoxyguanosine	urine	man	C	M	Loft, 1992, A1408	increase by 50 %
	leukocytes	man	A	M	Kiyosawa, 1990, 1641-B11	increase
accumulation of lymphocytes	lung	mouse	C	M	Matulionis, 1984, 348-C11	-
accumulation of surfactant	lung	mouse	C	M	Matulionis, 1984, 348-C11	-
acetyl	aorta	hamster	C	M	Haley,	increase

Remarks: Smoke type (TYPE): M: Mainstream; S: Sidestream
Study type (EXP): A: acute; B: subchronic; C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
glucuronidase					1982, D7544	
acetyltransferase	larynx	man	C	M	Stern, 1993, D10047	no effect
ACTH	serum	rat	A	M	Andersson, 1987, 1024-A1	increase
	plasma	rat	A	M	Andersson, 1988, 1042-A1	decrease
adherence	macrophage	man	C	M	Ando, 1984, 819-A7	-
adrenal weight	adrenal	rabbit	B	M	Hirokawa, 1991, D8747	increase; nicotine effect?
aggrevation of asthma, hay fever, angina	lung	man	-	S	Dahms, 1981, 786-A5	pectoris, rhinorrhea
					Aronow, 1978, 786-A1	pectoris, rhinorrhea
AHM	lungs	ham. fetus	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	kidneys	ham. fetus	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	liver	hamster paps	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	kidneys	hamster paps	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	lungs	gp fetus	-	M	Bilimoria, 1989, 14237	transplacental: no effect

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
AHM	lungs	hamster	B	M	Bilimoria, 1989, 14237	increase
		rat fetus	-	M	Bilimoria, 1989, 14237	transplacental; increase
	liver	guinea pigs	B	M	Bilimoria, 1989, 14237	no effect
	kidneys	guinea pigs	B	M	Bilimoria, 1989, 14237	increase
	lungs	guinea pigs	B	M	Bilimoria, 1989, 14237	increase
		gp paps	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	liver	gp paps	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	kidneys	gp paps	-	M	Bilimoria, 1989, 14237	transplacental: no effect
		gp fetus		M	Bilimoria, 1989, 14237	transplacental: no effect
	lungs	rat	A	M	Chow, 1982, 1393-A12	increase; vitamin E
	kidneys	rat	A	M	Chow, 1982, 1393-A12	incrase; vitamin E
	liver	rat	B	M	Bilimoria, 1989, 14237	increase
	kidneys	rat	B	M	Bilimoria, 1989, 14237	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
AHM	lungs	rat	B	M	Bilimoria, 1989, 14237	increase
		rat paps	-	M	Bilimoria, 1989, 14237	no effect
	kidneys	rat paps	-	M	Bilimoria, 1989, 14237	no effect
	liver	rat paps	-	M	Bilimoria, 1989, 14237	transplacental; increase
		rat fetus		M	Bilimoria, 1989, 14237	no effect
	kidneys	rat fetus	-	M	Bilimoria, 1989, 14237	no effect
	liver	gp fetus	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	lungs	hamster paps	-	M	Bilimoria, 1989, 14237	transplacental: no effect
	liver	ham. fetus	-	M	Bilimoria, 1989, 14237	transplacental: no effect
AHM activity	lung	rat	-	M	Kouri, 1979, 6-G13	mouse
		mouse	A	M	Holt, 1972, 693-C10	slight recovery after 5 weeks
	liver	mouse	A	M	Holt, 1972, 693-C10	induction after 5 weeks
	lung	rat	A	M	Gielen, 1976, 6-C3	increase, not in liver

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

2028899676

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
AHM activity	liver	mouse	C	M	Holt, 1972, 693-C10	induction after 5 weeks
	lung	rat	A	M	Farrell, 1980, 42-A9	also kidney
		rat	B	M	Down, 1981, 556-D14	recovery after 3d
		rat	A	M	Down, 1981, 556-D14	recovery after 3d
		rat	B	-	Down, 1981, 556-D14	no induction by non-smoke cig.
		mouse		S	Gairola, 1987, 943-D8	increase, not in guinea pig
		rat		S	Gairola, 1987, 943-D8	increase, not guinea pig
		mouse		M	Gairola, 1987, 943-D8	increase, not guinea pig
		rat		M	Gairola, 1987, 943-D8	increase, not in guinea pig
	intestine	rat	A	M	Welch et al., 1971, 13-M7	induction
	placenta	rat	A	M	Welch et al., 1971, 13-M7	induction
	lungs	rat	A	M	Welch et al., 1971, 13-M7	induction
	macrophage	man	A	M	Cantrell, 1973,	induction

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
					6-B10	
AHM activity	macrophage	man	C	M	Cantrell, 1973, 10-B18	induction
	trachea	rat	A	M	Simberg, 1978, 981-E13	cov. binding:i
	lung	rat	A	M	Simberg, 1978, 981-E13	-
		hamster		M	Akin, 1976, 1-A10	increase
	lungs	rat	B	M	Gupta, 1986, 1319-D5	induction
	liver	rat	B	M	Gupta, 1986, 1319-D5	induction
		rat	A	M	Gupta, 1986, 1319-D5	induction
	kidneys	rat	A	M	Uotila, 1977, 6-C22	induction
					Gielen, 1976, 6-C3	induction
					Farrell, 1980, 42-A9	induction
					Bilimoria, 1979, 1-C3	induction
					Bilimoria, 1977, 1-C12	induction
	liver	man	C	M	Fleischmann, 1986, 1366-B2	increase
	placenta	man	C	M	Pasanen, 1990, 1372-D3	induction

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

2028899678

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
AHM activity	liver	rat	B	M	Gupta, 1986, 1319-D5	induction
	lungs	rat	B	M	Gupta, 1986, 1319-D5	induction
	liver	man	C	M	Brodie, 1981, 1308-A1	induction
	lungs	man	C	M	Pasquini, 1988, 1333-F4	no effect
	liver	man	C	M	Remmer, 1987, 1231-E3	induction
					Brodie, 1981, 1308-A1	induction
	lymphocytes	man	C	M	Thompson, 1989, 1401-G4	no effect
	lung	rat	C	M	Gupta, 1989,	induction
	lungs	man	C	M	Petruzzelli, 1988, 1206-E10	increase
	lung	rat	A	S	Pasquini, 1987, 1154-D1	increase (MWSC/SWSC i.p.)
				M	Pasquini, 1987, 1154-D1	increase (MWSC/SWSC i.p.)
	liver	rat	A	M	Pasquini, 1987, 1154-D1	no ef., incr. with SWSC i.p.
	placenta	man	C	M	Hincal, 1986, TS 039	increase

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Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
AHM activity	monocytes	man	C	M	Nowak, 1988, 1053-G7	increase
	lung	rat	A	M	Akin, 1976, 1-A10	increase
		mouse		M	Akin, 1976, 1-A10	increase
					Abramson, 1975, 665-A1	responsive and non-responsive
		rat		M	Bilimoria, 1980, 1-B22	also kidney
		hamster		M	Bilimoria, 1980, 1-B22	renal only in female
		guinea pig		M	Bilimoria, 1980, 1-B22	no effect, but kidney
		rat		M	Dansette, 1979, 1-F26	increase, not in liver
	liver	man	C	M	Brodie, 1979, 3-A1	no effect:p-450,reductase
	lungs	man	C	M	Geneste, 1991, C1295	correlated with DNA adducts
	lymphocytes	man	C	M	Jahnke, 1990, B19	no change
	fetal liver	rat	A	M	Welch et al., 1971, 13-M7	induction
	liver	rat	A	M	Welch et al., 1971, 13-M7	induction
	kidney	rat	A	M	Gielen,	increse, not in

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
					1976, 6-C3	liver
AHM activity	lung	mouse	C	M	Holt, 1972, 693-C10	slight recovery after 5 weeks
		monkey		M	Sopori, 1985, 640-F9	-
	kidney	monkey	C	M	Sopori, 1985, 640-F9	-
	liver	monkey	C	M	Sopori, 1985, 640-F9	-
	stomach	monkey	C	M	Sopori, 1985, 640-F9	-
	liver	rat	B	S	Kawamoto, 1993, 1749-B6	decrease
	lungs	mouse C57Bl	C	M	Gairola, 1993, 1717-C7	induction
				S	Gairola, 1993, 1717-C7	induction
		man		M	Alexandrov, 1992, 1731-A1	induction
	lymphocytes	man	C	M	Paigen, 1977, 2-I26	no induction, no inheritance
	lungs	mouse (DBA)	C	M	Gairola, 1993, 1717-C7	induction
	myoretrum	human	C	M	Lamminen, 1993, A2253	induction
	lungs	mouse	C	S	Gairola,	no induction!

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
		(DBA)			1993, 1717-C7	
AHM activity	lymphocytes	man	C	M	Trell, 1985, D10422	-
	hair follicle	human	C	M	Alexandrov, 1990, D10421	no effect
AHM inducibility	lymphocytes	man	C	M	Trell, 1985, 2180 Trell, 1985, D10422	increase; polymorphism no effect
alanine aminotransferase	serum	rat	B	M	Coggins, 1993, A2044	no effect
		man	C	M	Mellstroem, 1982, 1063-D12	decrease
albumin	blood	man	-	M	Dales, 1974, 20-E10	-
		man	C	M	Weiss, 1981, 428-F12	-
	serum	rat	B	M	Coggins, 1993, A2044	no effect
	BALF	human	C	M	Bernard, 1992,	no effect
alkaline phosphatase	placenta	man	C	-	Tonik, 1983, 435-G10	-
	serum	man	C	M	Mellstroem, 1982, 1063-D12	increase
	blood	rat	A	M	Chow, 1982, 1393-A12	no effect; vitamin E

2028699652

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
alkaline phosphatase	serum	man	C	M	Gofin, 1982, 1042-A13	no effect
					Chan-Yeung, 1981, 1060-D8	increase
alpha-1-acid glucoprotein	blood	man	C	M	Weiss, 1981, 428-F12	-
					Wolf, 1982, 428-G5	-
alpha-1-antitrypsin	blood	man	C	M	Thabaut, 1976, 459-B12	-
					Wolf, 1982, 428-G5	-
					Weiss, 1981, 428-F12	-
alpha-1-globulin	blood	man	-	M	Wingerd, 1977, 13-N1	-
alpha-2-globulin	blood	man	-	M	Wingerd, 1977, 13-N1	-
alveolar edema	lungs	rabbit	A	M	Witten, 1985, D8688	increase (Tc-DTPA)
alveolar hemorrhage	lungs	rabbit	A	M	Witten, 1985, D8688	increase (Tc-DTPA)
alveolar macrophage number	lung lavage	man	C	M	Jonsson, 1987, -	increase
					Sugimoto, 1985, 540-G3	increase
					Harris, 1970, 56-B14	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

2028899683

Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
alveolar macrophages number	lung lavage	man	C	M	Barbers, 1987, -	increase
		rat	B	M	Drath, 1978, 10-D5	decrease
alveolar particulate clearance	lung	man	C	M	Freedman, 1984, 744-B5	-
amount of BALT	lung	rat	-	M	Gregson, 1981, 20-K6	-
antibodies against influenza antigens	blood	man	C	M	Finklea, 1971, 20-H13	-
antiprotease activity	serum	man	C	M	Gillissen, 1989, 1301-C9	no effect
antipyrene clearance	in vivo	rat	A	M	Farrell, 1980, 42-A9	the same in man
antipyrine clearance	-	man	C	M	Loft, 1988, 1157-D2	increase, also with coffee/tea
					Spoelstra, 1986, 1316-F6	increase (induction)
apolipoprotein A1	serum	man	C	M	Craig, 1989, 1288-A1	decrease: metaanalysis
architecture	spleen	mouse	-	M	Ayre, 1981, 442-A11	-
arterial wall thickness	carotid	man	C	M	Howard, 1992, D9132	increase
				E	Howard, 1992, D9132	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
artery stenosis	heart	dog	A	M	Gering, 1990, -	exacerbation (also PREMIER)
ascorbate concentration	plasma	man	C	M	van Rensburg, 1989, 1395-G7	no effect
ascorbic acid	serum	man	C	M	Schectman, 1991, D4575	decrease
	kidneys	rat	A	M	Bilimoria, 1992, A672	no effect
	heart	rat	A	M	Bilimoria, 1992, A672	no effect
	lungs	guinea pig	A	M	Bilimoria, 1992, A672	no effect
	liver	guinea pig	A	M	Bilimoria, 1992, A672	no effect
	heart	guinea pig	A	M	Bilimoria, 1992, A672	no effect
	lungs	guinea pig	A	S	Bilimoria, 1992, A672	no effect
	blood	guinea pig	A	M	Bilimoria, 1992, A672	no effect
	heart	guinea pig	A	S	Bilimoria, 1992, A672	no effect
	bladder	guinea pig	A	S	Bilimoria, 1992, A672	no effect
	liver	guinea pig	A	S	Bilimoria, 1992, A672	no effect
	kidneys	guinea pig	A	S	Bilimoria, 1992, A672	no effect
	bladder	guinea pig	A	M	Bilimoria, 1992, A672	no effect
	kidneys	guinea pig	A	M	Bilimoria, 1992, A672	no effect

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
ascorbic acid	bladder	rat	A	M	Bilimoria, 1992, A672	no effect
	liver	rat	A	M	Bilimoria, 1992, A672	no effect
	lungs	rat	A	M	Bilimoria, 1992, A672	no effect
	blood	rat	A	M	Bilimoria, 1992, A672	no effect
aspartate aminotransaminase	serum	man	C	M	Dini, 1969, 1039-C2	no effect
aspartate aminotransferase	serum	man	C	M	Chan-Yeung, 1981, 1060-D8	slight decrease
					Chan-Yeung, 1982, -	decrease
	blood	rat	A	M	Chow, 1982, 1393-A12	no effect; vitamin E
	serum	man	C	M	Mellstroem, 1982, 1063-D12	no effect
					Dales, 1974, 20-E10	inconsistent effects
					Gofin, 1982, 1042-A13	decrease in males
		rat	B	M	Coggins, 1993, A2044	no effect
atherosclerosis	heart	human	C	M	Perlman, 1985, 1001-E7	combin. with oral contracept.
atherosclerotic lesions	aorta	hamster	C	M	Haley, 1982, D7544	increase
atherosclerotic plaques	aorta	cockerel	B	S	Penn, 1993, SOT	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
					abs	
atherosclerotic plaques	aorta	rabbit	B	M	Fisher, 1974, C2274	no effect
	pulmonary artery	rabbit	B	S	Zhu, 1993, D8230	increase
	aorta	rabbit	B	S	Zhu, 1993, D8230	increase
				M	Hirokawa, 1991, D8747	no effect; cholesterol-fed
atrophy	nose	rat	B	M	Coggins, 1993, A2044	not seen
B lymphocyte, stimulation	spleen	monkey	C	M	Sopori, 1985, 640-F9	no effect, LPS
B lymphocytes	blood	man	A	E	Hockertz, 1993, Titisee	increase
B(a)P covalent binding	lung	rat	A	M	Gupta, 1987, 1195-C11	overadditive, if vit.deficient
B(a)P-DNA adducts	monocytes	man	C	M	Nowak, 1988, 1053-G7	no effect
bactericidal acitivity	alveolar macrophages	man	C	M	King, 1988, 11501	vanished
bactericidal activity	lung lavage	man	C	M	Jonsson, 1987, -	no effect
basal cell hyperplasia	lungs	man	C	E	Trichopoulos, 1992, -	-
benzene concentration	blood	man	C	M	Hajimiraghia, 1989, 1368-E10	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
beta carotine concentration	plasma	man	C	M	Stryker, 1988, 1195-E14	-
					van Rensburg, 1989, 1395-G7	no effect
beta-2-microglobulin	BALF	human	C	M	Bernard, 1992,	no effect
bile acids	liver	rat	B	M	Latha, 1988, 1215-B12	decrease
bilirubin	serum	man	C	M	Gofin, 1982, 1042-A13	decrease in males
					Chan-Yeung, 1982, -	decrease in males
					Mellstroem, 1982, 1063-D12	decrease
bilirubin (total)	serum	rat	B	M	Coggins, 1993, A2044	no effect
bladder tumors	-	man	C	M	Mathe, 1988, 1316-F4	epidemiology
bleeding time	-	rabbit	B	S	Zhu, 1993, D8230	increase
body weight	whole body	-	C	M	Gruenberg, 1987, abstract	-
body weight gain	-	rat	C	M	Griffith, 1985, 296-C8	-
				S	Griffith, 1985, 296-C8	-
		rat	B	-	Binns, 1978, 20-C18	decrease

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Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
body weight gain	-	rat	B	M	Mauderly, 1989, D235	reduction
bombesin-like peptides	BAL	man	C	M	Takeyama, 1993, D10131	no effect
	urine	man	C	M	Aguayo, 1992, D7048	increase
	BAL	man	C	M	Aguayo, 1992, D7048	increase
cadmium	lungs	rat	C	M	Gairola, 1991, D4869	increase
	kidneys	mouse	C	M	Gairola, 1991, D4869	increase
	lungs	mouse	C	M	Gairola, 1991, D4869	increase
	kidneys	rat	C	M	Gairola, 1991, D4869	increase
	blood	man	C	-	Ewers, 1985, 419-E1	increase
cadmium concentration	lungs	man	C	M	Paeaekkoe, 1989, 1324-D3	increase
	amniotic fluid	man	C	M	Siegers, 1983,	increase
calcium conc.	serum	rat	B	M	Coggins, 1993, A2044	no effect
calcium concentration	blood	man	C	M	Sulsky, 1988, 1195-F14	increase
cancer	breast	human	C	M	Stroup,	no effect

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
					1985, -	
cancer	cervix	man	-	M	La Vecchia, 1986, 976-D5	-
					Brinton, 1986, 976-A10	-
					Harris, 1980, 976-B8	-
					Peters, 1986, 1023-F13	
carboxyhemoglobin	blood	rat	A	M	Chow, 1982, 1393-A12	increase; vitamin E
		man		E	McMurray, 1985, D9126	increase
		rat	B	M	Coggins, 1993, A2044	up to 29 %
carcinogenicity	lungs	mouse	C	M	Campbell, 1936, D7536	no effect
				S	Diana, 1992, -	study not finished
				M	Essenberg, 1952, D7537	increase
					Harris, 1967, D7538	increase
	larynx	hamster	C	M	Wehner, 1976, D7543	papilloma formation
	lungs	rat	C	M	Mori, 1964, D7541	no effect
				S	Grimmer,	increase (grafts)

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
					1988, 1199-B5	
carcinogenicity	lungs	rat	C	M	Wehner, 1981, 15-N21	decrease
		mouse		M	Muehlbock, 1955, D7542	increase
					Lorenz, 1942, D7540	no effect
		rat		M	Dalbey, 1980, 17-D2	increase (doubtful)
		mouse		M	Diana, 1992, -	study not finished
carotenoid concentration	blood	man	C	M	Sulsky, 1988, 1195-F14	decrease
catalase	liver	rat	B	M	Gupta, 1988, 1215-A8	no effect
	lungs	rat	B	M	Gupta, 1988, 1215-A8	no effect
catecholamine	hypothalamus	rat	A	M	Andersson, 1987, 1024-A1	decrease
cell proliferation	nose	rat	B	M	Mauderly, 1989, D235	increase at 1 w, zero at 5 w
ceruloplasmin concentration	serum	man	C	M	Galdston, 1987, 1323-B12	increase
chemiluminescence	urine	man	C	M	Inaba, 1986, 1045-F2	increase
chemotactic activity	cell-free BAL	mouse	C	M	Kew, 1987, 977-B9	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
chemotactic activity	bron. epi. cell	man	-	-	Shoji, 1986, 1039-F11	stimulation
		bovine		-	Shoji, 1986, 1039-F11	stimulation
chloride conc.	serum	rat	B	M	Coggins, 1993, A2044	no effect
cholesterogenesis	liver	rat	B	M	Latha, 1988, 1215-B12	increase
	lungs	rat	B	M	Latha, 1988, 1215-B12	increase
	heart	rat	B	M	Latha, 1988, 1215-B12	increase
cholesterol	lung	rat	B	M	Latha, 1988, 1215-B12	increase
	lipoprotein	rat	B	M	Latha, 1988, 1215-B12	increase
	aorta	rat	B	M	Latha, 1988, 1215-B12	increase
		hamster	C	M	Haley, 1982, D7544	increase
	blood	rat	A	M	Chow, 1982, 1393-A12	no effect; vitamin E
	serum	man	C	M	Craig, 1989, 1288-A1	increase: metaanalysis
	heart	rat	B	M	Latha, 1988, 1215-B12	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

2028899692

Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
cholesterol	plasma	rabbit	B	M	Hirokawa, 1991, D8747	no effect; cholesterol-fed
	adrenals	rabbit	B	M	Hirokawa, 1991, D8747	no effect; cholesterol-fed
	liver	rabbit	B	M	Hirokawa, 1991, D8747	no effect; cholesterol-fed
cholesterol (total/HDL)	blood	man	C	S	Feldman, 1991, D4296	small increase
cholesterol acyltransferase	plasma	pigeon	A	M	Mulligan, 1981, -	decrease
cholesterol concentration	plasma	pigeon	A	M	Mulligan, 1981, -	no effect
cholesterol ester concentration	plasma	pigeon	A	M	Mulligan, 1981, -	no effect
cholesterol esters	aorta	hamster	C	M	Haley, 1982, D7544	increase
cholesterol in HDL	serum	man	C	M	Craig, 1989, 1288-A1	decrease: metaanalysis
cholesterol in LDL	serum	man	C	M	Craig, 1989, 1288-A1	increase: metaanalysis
cholesterol in VLDL	serum	man	C	M	Craig, 1989, 1288-A1	increase: metaanalysis
chromium concentration	lungs	man	C	M	Paeaekkoe, 1989, 1324-D3	increase
chromosomal aberrations	alv. macrophages	rat	B	M	Mauderly, 1989, D235	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
chromosome aberrations	lymphocyte	man	C	M	Nordenson, 1978, 189-D13	blood
					Huettner, 1980, 178-D5	blood
					Andersson, 1980, 204-A1	blood
					Obe, 1982, 205-E1	blood
					Fredga, 1982, 176-E11	blood
					Vijayala, 1982, 206-F14	blood
	lymphocytes	man	C	M	Brinkworth, 1992, 1685-A1	no effect
	bone marrow	mouse	B	M	Lee, 1990, -	smoking article comparison
	root tip	garlic	-	-	Izard, 1973, -	-
		onion		-	Sabharwal, 1975, 13-H17	increase
		garlic		-	Pandey, 1978, -	increase
	lung	human	-	-	Leuchtenberger, 1973, 23-M17	increase
					Leuchtenberger, 1983, 326-C13	increase
	lymphocyte	man	C	M	Angelsanto, 1982, 228-A1	blood
					Maeki-Paakanen, 1980,	blood

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
chromosome aberrations	lymphocyte	man	C	M	181-E5 Obe, 1978, 169-E1	blood
ciliotoxicity	trachea	dog	A	M	Guillerm, 1961, D10809	others in vitro
Clara cell protein	BALF	human	C	M	Bernard, 1992,	decrease
	serum	human	C	M	Bernard, 1992,	decrease
clearance of particle	lungs	rat	B	M	Finch, 1993,	impairment
complement	blood	man	-	M	Romanski, 1981, 804-F1 Wyatt, 1981, 803-G7 Perricone, 1983, 817-C7	- - -
complement, C1-activation	serum	man	-	-	Kew, 1985, 1042-C2	no effect
complement, C3	-	human	-	-	Kew, 1985, 1042-C2	alternative pathway activation
		man		-	Kew, 1987, 1042-C10	alternative pathway activation
complement, C4-activity	serum	human	-	-	Kew, 1985, 1042-C2	depletion
complement, hemolytic activity	serum	human	-	-	Kew, 1985, 1042-C2	depletion
compliance, rate	lung	mouse	C	M	Matulionis, 1984, 348-C11	decrease
copper concentration	blood	man	C	M	Sulsky, 1988, 1195-F14	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

2028899695

Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
corticoid	plasma	rabbit	B	M	Hirokawa, 1991, DB747	increase; cholesterol-fed
corticosterone	serum	rat	A	M	Andersson, 1987, 1024-A1	no effect
cotinine	urine	man	-	M	Jarvis, 1983, 422-B14	-
				S	Jarvis, 1983, 422-B14	-
	plasma	rat	B	M	Coggins, 1993, A2044	-
	serum	man	A	E	Wagenknecht, 1993, D10799	blacks higher than whites
		man	C	M	Wagenknecht, 1990, D2160	racial differences
cotinine concentration	urine	rat	B	M	Mauderly, 1989, D235	-
creatine kinase	serum	man	C	M	Pedersen, 1985, 1042-E9	decrease
creatine phosphokinase	blood	rat	A	M	Chow, 1982, 1393-A12	no effect; vitamin E
creatinine	urine	man	C	M	Mohtashami pur, 1985, 455-E13	-
	serum	man	C	M	Gofin, 1982, 1042-A13	decrease in males
	urine	human	C	M	Adlkofer, 1985, 812-A1	-

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
creatinine	serum	rat	B	M	Coggins, 1993, A2044	no effect
cutaneous flow	blood	man	-	M	Richardson and 82, 1981, 6-J2	
		?		M	Ehrly, 1975, 435-C5	-
cyclooxygenase	platelets	man	C	M	Nowak, 1987, -	induction
cytochrome b5	liver	rat	A	M	Gupta, 1986, 1319-D5	no effect
		rat	B	M	Gupta, 1986, 1319-D5	no effect
					Gupta, 1986, 1319-D5	no effect
	lungs	rat	B	M	Gupta, 1986, 1319-D5	no effect
	liver	rat	B	M	Gupta, 1986, 1319-D5	no effect
cytochrome c oxidase	blood	rat	-	M	Garrett, 1978, 25-G1	-
cytochrome c reductase	liver	rat	B	M	Gupta, 1986, 1319-D5	no effect
		man	C	M	Brodie, 1981, 1308-A1	no effect
		rat	A	M	Gupta, 1986, 1319-D5	no effect
		rat	B	M	Gupta,	no effect

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
					1986, 1319-D5	
cytochrome c reductase	lung	rat	B	M	Gupta, 1986, 1319-D5	no effect
	liver	rat	B	M	Gupta, 1986, 1319-D5	no effect
cytochrome C reductase	liver	rat	B	S	Kawamoto, 1993, 1749-B6	no effect
cytochrome G5	liver	rat	B	S	Kawamoto, 1993, 1749-B6	no effect
cytochrome P-450	liver	rat	B	S	Kawamoto, 1993, 1749-B6	no effect
	lungs	rat	B	M	Gupta, 1986, 1319-D5	induction
	liver	man	C	M	Brodie, 1981, 1308-A1	no effect
					Sesardic, 1988, 1277-D4	increase
cytochrome P-450 1A1 mRNA	lymphocytes	man	C	M	Van den Heuvel, 1993, A2188	doubling
cytochtome p-450	liver	man	C	M	Brodie, 1981, 1308-A1	no effect
cytotoxicity	cell culture	rat	-	M	McKarns, 1990, -	smoking article comparison
		human		M	McKarns, 1990, -	smoking article comparison
desmosine	urine	human	C	M	Davies, 1983,	-

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
					832-B4	
diff. count	blood	rat	B	M	Coggins, 1993, A2044	no effect
diffusion capacity	lung	mouse	C	M	Matulionis, 1984, 348-C11	decrease
DNA adduct	bladder	man	C	M	Bartsch, 1993, D9378	-
DNA adduct (4-aminobiphenyl)	bladder	man	C	M	Bartsch, 1993, D9378	dose-dependent, black/blond
DNA adduct of B(a)P	alveolar macrophages	man	C	M	Izzotti, 1991, C1294	correlation with cig./day
DNA adducts	lungs	rat	B	M	Gupta, 1988, 1135-A11	post-labeling
	nose	rat	C	M	Gupta, 1989,	not in liver
	lymphocytes	man	C	M	Jahnke, 1990, B19	no change
	bladder	rat	C	M	Gupta, 1990, 1367-E4	increase; postlabeling
	heart	rat	C	M	Gupta, 1990, 1367-E4	increase; postlabeling
	trachea	rat	C	M	Gupta, 1990, 1367-E4	increase; postlabeling
	lungs	rat	C	M	Gupta, 1990, 1367-E4	increase; postlabeling
	larynx	rat	C	M	Gupta, 1990, 1367-E4	increase; postlabeling

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
DNA adducts	lymphocytes	man	C	M	Thompson, 1989, 1401-G4	no effect
	lung	rat	C	M	Gupta, 1989,	not in liver
	nasal epithel.	rat	B	M	Gupta, 1988, 1135-A11	post-labeling
	white blood cel	mouse	A	M	Reddy, 1988, 1135-D14	skin painting
	larynx	man	C	M	Stern, 1993, D10047	increase
DNA adducts (32P method)	lymphocytes	man	C	M	Savela, 1989, 1457-F5	no effect
DNA adducts (B(a)P)	lungs	man	C	M	Alexandrov, 1992, 1731-A1	correlation with AHM
DNA adducts (PAH) (ELISA)	lymphocytes	man	C	M	Perera, 1991, 1574-D2	no effect
DNA adducts (PAH) (USERIA)	lymphocytes	man	C	M	Perera, 1991, 1574-D2	increase
DNA adducts (postlabeling)	lung	man	C	M	Phillips, 1988, 1174-F12	increase
	larynx	man	C	M	Randerath, 1989, 1275-F2	?
	bronchus	man	C	M	Randerath, 1989, 1275-F2	?
	esophagus	man	C	M	Randerath, 1989, 1275-F2	?

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
DNA adducts (postlabeling)	gastric mucosa	man	C	M	Dyke, 1992, 1684-A13	no effect: females
					Dyke, 1992, 1684-A13	increase: males
	lungs	man	C	M	Geneste, 1991, C1295	correlated with AHM
	lymphocytes	man	C	M	Perera, 1991, 1574-D2	no effect
	granulocytes	man	C	M	Savela, 1991, 1544-F4	no effect
	lymphocytes	man	C	M	Savela, 1991, 1544-F4	increase
	aorta	man	C	M	Randerath, 1989, 1275-F2	?
	bladder	man	C	M	Randerath, 1989, 1275-F2	?
	lungs	man	C	M	Randerath, 1989, 1275-F2	?
	liver	man	C	M	Randerath, 1989, 1275-F2	?
	heart	man	C	M	Randerath, 1989, 1275-F2	?
	lungs	rat	B	M	Bond, 1989, 1426-A11	increase
		mouse	C	M	Gairola, 1993, 1717-C7	increase

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
DNA adducts (postlabeling)	liver	mouse	C	S	Gairola, 1993, 1717-C7	no effect
	lungs	rat	B	M	Mauderly, 1989, D235	increase
	liver	mouse	C	M	Gairola, 1993, 1717-C7	no effect
	lungs	mouse	C	S	Gairola, 1993, 1717-C7	increase
DNA adducts (SFS)	lungs	rat	B	M	Izzotti, 1992, D7977	increase
	heart	rat	B	M	Izzotti, 1992, D7977	increase
	liver	rat	B	M	Izzotti, 1992, D7977	no effect
DNA methylation	lungs	man	C	M	Foiles, 1991, 1600-C11	increase
DNA pyridiloxobutylation	lungs	man	C	M	Foiles, 1991, 1600-C11	increase
	trachea	man	C	M	Foiles, 1991, 1600-C11	increase
DNA synthesis	macrophage	man	C	M	Matulionis, 1979, 21-A10	-
dopamine hydroxylase	plasma	rabbit	B	M	Hirokawa, 1991, DB747	increase
drug metabolism	-	man	-	M	Vestal, 1975, 92-G5	-

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

2028899702

Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
drug metabolism	-	?	-	M	Garrett, 1979, 20-J7	-
					Pelkonen, 1980, 18-C17	-
DT diaphorase	lungs	man	C	M	Schlager, 1988, 1135-G1	no effect
edema (Evan's Blue)	trachea	rat	A	M	Landberg, 1983, 804	capsaicin-inhibitable
eicosanoid formation	lung lavage	rabbit	A	M	Witten, 1988, -	complex modification
elastase activity	BAL	guinea pig	B	S	Slodkowska, 1987, 1059-F11	no significant change
	BALF	man	C	M	Abboud, 1988, 1344-A1	increase, antiproteases
	plasma	human	-	M	Weitz, 1987, 1056-G5	increase
elastolytic activity	lung lavage	man	C	M	Smith, 1988, 1215-F10	increase
emphysema	lung	man	-	-	Tattersfield, 1983, 804-G5	-
		-		-	Auerbach, 1972, 474-B2	-
emphysema, elastase-induced	lung	hamster	C	M	Hoidal, 1983, 431-D14	-
endothelial cell count	blood	man	C	S	Davis, 1989, 1301-B11	increase
epoxide	lung	rat	A	M	Dansette,	increase, not in

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
hydratase					1979, 1-F26	liver
epoxide hydratase	trachea	rat	A	M	Simberg, 1978, 981-E13	no effect
epoxide hydrolase	lungs	man	C	M	Petruzzelli, 1988, 1206-E10	increase
erythrocte volume	blood	rat	B	M	Coggins, 1993, A2044	no effect
erythrocyte count	blood	rat	B	M	Coggins, 1993, A2044	no effect
esophagus tumors	-	man	C	M	Mathe, 1988, 1316-F4	epidemiology
estrogen hydroxylation	-	man	C	M	Michnovicz, 1989, 1344-E4	increase
estrus cycle	-	mouse	C	M	Gulati, 1989, -	SOT meeting
				S	Gulati, 1989, -	SOT meeting
ethoxycoumarin deethylase	lungs	man	C	M	Petruzzelli, 1988, 1206-E10	increase
ethoxyresorufin deethylase	lymphocytes	man	C	M	Thompson, 1989, 1401-G4	no effect
	placenta	man	C	M	Pasanen, 1990, 1372-D3	induction
					Manchester, 1981, D10813	induction
				E	Manchester, 1981, D10813	no induction (7,8-BF-effect?)

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

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Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
ethylene oxide globin adducts	blood	man	C	M	Perera, 1991, 1574-D2	increase
ethyleneoxide globin adduct	blood	man	C	M	Wogan, 1989, 1500-G3	increase
exercise performance	-	man	A	E	McMurray, 1985, D9126	impairment
exsudation (Evan's Blue)	trachea	rat	A	M	Landberg, 1983, 804	capsaicin-inhibitable
eye blinking	eye	human	-	-	Basu, 1978, 478-A1	-
fatty acid, free	blood	rat	-	M	Mikhail, 1979, 196-G10	-
ferritin	macrophage alv.	man	C	M	Rich, 1988, 1308-E11	increase
fertility	-	human	C	M	Daling, 1985, -	immunosuppression
fertility in vitro	-	man	C	M	Rosevear, 1992,	decreased
fibrinogen	blood	man	C	M	Cremer, 1993, Titisee	increase
fibrosis	lung	mouse	C	M	Matulionis, 1984, 348-C11	-
folate	blood	man	C	M	Piyathilake, 1992, -	decrease
	buccal cells	man	C	M	Piyathilake, 1992, -	decrease
	blood	man	C	M	Dastur, 1972, -	decrease

2028899705

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

Source: https://www.industrydocuments.ucsf.edu/docs/xzcl0000

TOBACCO SMOKE EFFECTS

PARAMETER	TISSUE	SPECIES	EXP	TYPE	SOURCE	REMARKS
follicle stimulating hormone	serum	rat	A	M	Andersson, 1988, 1054-A1	decrease
free lung cell number	lung lavage	rat	S	M	P 0500/3108, , -	no effect
		hamster		M	P 0500/3108, , -	no effect
		rat		S	P 0500/3123, , -	no effect
		hamster		S	P 0500/3123, , -	no effect
fsh	serum	rat	A	M	Andersson, 1987, 1024-A1	no effect
galactosidose	aorta	hamster	C	M	Haley, 1982, D7544	increase
gamma globulin	blood	man	-	M	Wingerd, 1977, 13-N1	-
GAP-DH inhibition	alv. macrophages	rabbit	A	M	Powell, 1972, 9-G20	in vitro inhibtition
					Evans, 1979, 1754-C6	in vitro inhibtition
gastric emptying	stomach	man	C	M	Grimes, 1978, 350-B5	-
globin adduct (4-aminobiphenyl)	bladder	man	C	M	Bartsch, 1993, D9378	dose-dependent, black/blond
globin adducts	blood	man	C	M	Dolora, 1992, -	4-aminobiphenyl
globulin	blood	man	-	M	Dales,	-

Remarks: Smoke type (TYPE): M: Mainstream, S: Sidestream
Study type (EXP): A: acute, B: subchronic, C: chronic

2028899706

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